**AMENDMENTS TO THE CLAIMS:** 

This listing of claims will replace all prior versions, and listings, of claims in the

application:

**Listing of Claims** 

Claim 1 (currently amended): A chemically amplified resist composition comprising a

base resin reacting in the presence of an acid, a photo acid generator generating an acid upon

exposure, and a monomer compound having the combination of an acetal moiety and a site which

is eliminated by an acid in its molecule.

Claim 2 (original): The chemically amplified resist composition of claim 1, wherein said

compound has the acetal moiety and the site eliminated by an acid at locations such that a final

product containing a ring structure can be produced through reactions in the presence of the acid.

Claim 3 (currently amended): The chemically amplified resist composition of claim 2,

wherein said compound is represented by the formula:

Claim 4 (currently amended): The chemically amplified resist composition of claim 1, wherein said base polymer is a homopolymer of an acrylate or metherylate methacrylate monomer or a copolymer of two or more of such monomers, a polymer of cycloolefin monomer, or a hybrid polymer of an acrylate or methacrylate monomer and a cycloolefin monomer.

Claim 5 (currently amended): The chemically amplified resist composition of claim 2, wherein said base polymer is a homopolymer of an acrylate or methorylate method metho

Claim 6 (original): The chemically amplified resist composition of claim 1, wherein said

base resin is a copolymer of 2-methyladamantyl methacrylate and gamma-butyrolactone

methacrylate.

Claim 7 (original): The chemically amplified resist composition of claim 2, wherein said

base resin is a copolymer of 2-methyladamantyl methacrylate and gamma-butyrolactone

methacrylate.

Claim 8 (withdrawn): A chemically amplified resist composition comprising a base resin,

which is a copolymer having the combination of an acetal moiety and a site eliminated by an acid

in one repeating unit and reacts in the presence of an acid, and a photo acid generator generating an

acid upon exposure.

Claim 9 (withdrawn): The chemically amplified resist composition of claim 8, wherein

said repeating unit has the acetal moiety and the site eliminated by an acid at locations such that a

final product containing a ring structure can be produced through reactions in the presence of the

acid.

Claim 10 (withdrawn): The chemically amplified resist composition of claim 8, wherein

said copolymer has, in addition to said repeating unit, a repeating unit derived from an acrylate or

methacrylate monomer, or a repeating unit derived from a cycloolefin monomer, or a combination

of repeating units derived from an acrylate or methacrylate monomer and a cycloolefin monomer.

Claim 11 (withdrawn): The chemically amplified resist composition of claim 9, wherein said copolymer has, in addition to said repeating unit, a repeating unit derived from an acrylate or methacrylate monomer, or a repeating unit derived from a cycloolefin monomer, or a combination of repeating units derived from an acrylate or methacrylate monomer and a cycloolefin monomer.

Claim 12 (withdrawn, currently amended): The chemically amplified resist composition of claim 8, wherein said copolymer is represented by the formula:

wherein m, n, and k are positive integers.

Claim 13 (withdrawn, currently amended): The chemically amplified resist composition of claim 9, wherein said copolymer is represented by the formula:

wherein m, n, and k are positive integers.

Claim 14 (withdrawn): The chemically amplified resist composition of claim 8, wherein said copolymer is represented by the formula:

wherein p and q are positive integers.

Claim 15 (withdrawn): The chemically amplified resist composition of claim 9, wherein

said copolymer is represented by the formula:

wherein p and q are positive integers.

Claim 16 (withdrawn): The chemically amplified resist composition of claim 8, wherein said copolymer is represented by the formula:

wherein m, n, and k are positive integers.

Claim 17 (withdrawn): The chemically amplified resist composition of claim 9, wherein said copolymer is represented by the formula:

wherein m, n, and k are positive integers.

Claim 18 (withdrawn): The chemically amplified resist composition of claim 8, wherein said copolymer is free of aromatic rings.

Claim 19 (withdrawn): The chemically amplified resist composition of claim 9, wherein said copolymer is free of aromatic rings.

Claim 20 (original): A method for forming a patterned film by applying a resist material to a film provided on the surface of a substrate, to form a resist layer, pre-baking the resist layer, selectively exposing the pre-baked resist layer to a radiation, post-baking the exposed resist layer, developing the post-baked resist layer to form a resist pattern, and patterning the film underlying the resist pattern by the use of the resist pattern as a mask, wherein the chemically amplified resist

Application No. 09/940,665

Amendment dated December 11, 2003

Reply to Office Action of June 17, 2003

composition of claim 1 is used as the resist material.

Claim 21 (withdrawn): A method for forming a patterned film by applying a resist material

to a film provided on the surface of a substrate, to form a resist layer, pre-baking the resist layer,

selectively exposing the pre-baked resist layer to a radiation, post-baking the exposed resist layer,

developing the post-baked resist layer to form a resist pattern, and patterning the film underlying

the resist pattern by the use of the resist pattern as a mask, wherein the chemically amplified resist

composition of claim 8 is used as the resist material.

Claim 22 (original): The method of claim 20, wherein said radiation is an excimer laser

beam, X-rays, or an electron beam.

Claim 23 (withdrawn): The method of claim 21, wherein said radiation is an excimer laser

beam, X-rays, or an electron beam.

Claim 24 (original): The method of claim 20, wherein said radiation is an ArF excimer

laser beam or vacuum ultraviolet light having a shorter wavelength.

Claim 25 (withdrawn): The method of claim 21, wherein said radiation is an ArF excimer

laser beam or vacuum ultraviolet light having a shorter wavelength.